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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,239	09/03/2004	Hari Hariharan	GEMS8081.228	5238
27061	7590 01/18/2006		EXAMINER	
ZIOLKOWSKI PATENT SOLUTIONS GROUP, SC (GEMS)			VAUGHN, MEGANN E	
	14135 NORTH CEDARBURG ROAD MEQUON, WI 53097		ART UNIT	PAPER NUMBER
,			2859	
			DATE MAILED: 01/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 10/711,239 Examiner	Applicant(s) HARIHARAN ET AL. Art Unit		
Examiner			
	Art Unit		
Magann E Vaughn	Art out		
	2859		
appears on the cover sheet with	h the correspondence address		
G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a rej ı.	ply be timely filed "HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
3 September 2004.			
his action is FINAL . 2b)⊠ This action is non-final.			
-	ers, prosecution as to the merits is		
er <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.		
drawn from consideration.			
accepted or b) objected to be the drawing(s) be held in abeyand rection is required if the drawing(s)			
nents have been received in Ap priority documents have been r	oplication No received in this National Stage		
Paper No(s) 3/08) 5) Notice of Interest	ummary (PTO-413))/Mail Date formal Patent Application (PTO-152)		
	EPLY IS SET TO EXPIRE 1 MCG DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a rent. Period will apply and will expire SIX (6) MONT tatute, cause the application to become ABA nailing date of this communication, even if the distribution of the application of the communication, even if the distribution of the dist		

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-8, drawn to an MRI apparatus, classified in class 324, subclass
 312.
 - II. Claims 9-20, drawn to a method of MR imaging and a computer readable storage medium, classified in class 324, subclass 309.
- 2. The inventions are distinct, each from the other because of the following reasons: Inventions II and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the MRI apparatus can be used to practice another materially

different process such as a method of MR imaging wherein the flip angle is determined

without the use of a maximum echo amplitude equal to a target/desired amplitude.

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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4. Furthermore, if applicant elects group II above, then an election of species is required. This application contains claims directed to the following patentably distinct species of the claimed invention:

- a. The species (claims 9-14), which calculates the flip angle by finding the most optimal stored polynomial expression based on target amplitude.
- b. The species (claims 15-20), which uses a polynomial fit of a flip angle train that represents the relationship between the calculated echo train duration time and target amplitude to calculate the flip angle in real time.
- 5. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, it appears that there are no generic claims.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

6. A telephone call was made to Mr. Ken Baker on 1/9/2006 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Megann E. Vaughn whose telephone number is 571-272-8927. The examiner can normally be reached on 8 am- 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MV 1/9/2006 Diego Gutierrez Supervisory Patent Examiner Technology Center 2800